FRONT SUSPENSION TUNING GUIDE

ROCKSHOX SID BRAIN, SID 29 BRAIN

CONTENTS

INTRODUCTION 2
SERVICE AND MODIFICATIONS 2

BRAIN TECHNOLOGY 2

PERFORMANCE TUNING 2
1. SETTING AIR PRESSURE AND SAG 3
2. ADJUSTING REBOUND DAMPING 4
3. ADJUSTING COMPRESSION DAMPING (BRAIN FADE) 4

All instructions are subject to change for improvement without notice.
Please visit www.specialized.com for periodic tech updates.
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INTRODUCTION

Your bike is equipped with a RockShox fork featuring Specialized Brain technology. Please read this Tuning Guide as well as RockShox's Suspension Fork User Manual in its entirety for proper setup and service before riding. Please contact Specialized at (877) 808-8154 or RockShox at (800) 346-2928 for further information or questions, and visit www.specialized.com or www.rockshox.com for periodic updates.

Make sure that you review and understand the warnings, instructions, and content of your bicycle manuals.

SERVICE AND MODIFICATIONS

As a first point of contact for all warranty or service issues, please refer to your local Specialized or RockShox Authorized Dealer. **All maintenance of the Brain damper must be performed by a Specialized Authorized Service Center. Please visit www.specialized.com for a list of Specialized Authorized Dealers, which is the point of contact for sending product to the Authorized Service Center.**

BRAIN TECHNOLOGY

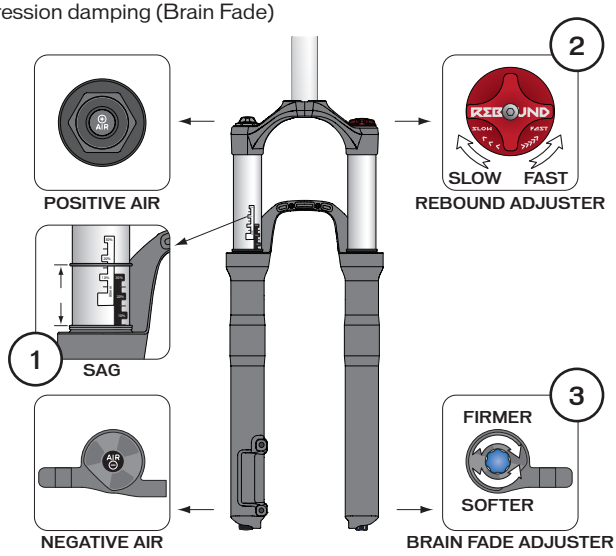
BRAIN: Inertia valve platform that supports the fork and distinguishes between terrain- or rider weight-induced events. This provides two distinct compression damping rates: one to react to terrain and the other to support the rider.

BRAIN FADE: Fluid bypass circuit that allows the rider to modulate the firmness of the Inertia Valve (IV), and allows the rider to select between a firmer or softer platform. Compression damping is also reduced as the fluid bypass is increased.

PERFORMANCE TUNING

RockShox forks can be tuned for your particular weight, riding style and terrain. When tuning your fork, always tune in the following order:

1. Sag (spring rate tuning)
2. Rebound damping
3. Compression damping (Brain Fade)



1. SETTING AIR PRESSURE AND SAG

Sag is the amount the fork compresses from your weight and riding gear when sitting on the bike. Proper sag adjustment enhances the ability of the front wheel to follow the contour of the terrain as you ride.

MEASURING SAG

To measure sag, verify the Specialized Brain is open by turning the blue knob (located at the bottom of the non-drive side fork leg) counter-clockwise (see fig.1).

Move the travel indicator o-ring down against the wiper seal of the fork's upper tube. Sit on the bike with your normal riding gear. Step off the bike and measure the distance between the zip tie and wiper seal (or, if applicable, check the location of the travel indicator o-ring against the sag value gradients marked on the upper tube). This is your sag. Sag should be between 15 and 25 percent of maximum travel.

If you are unable to achieve proper sag you may need to change the fork's air pressure (air spring tuning). Use the additional tuning information below to assist in proper set up of your fork.

AIR SPRING TUNING

Dual Air forks have independently adjustable positive (top) and negative (bottom) air chambers.

Step 1 - Selecting Positive Air Pressure

Positive air pressure determines the amount of force required to compress your fork.

- More positive air pressure will result in less suspension sag and increase the force required to bottom out the fork.
- Less positive air pressure will result in more suspension sag and reduce the force required to bottom out the fork.

Setting Positive Air Pressure:

Remove the air cap on the air valve located on the non-drive side of the fork crown.

Refer to the air chart on the fork leg for recommended air pressure settings. These air pressure settings are intended as a guidline only. Inflate the positive air chamber to the desired pressure and then adjust according to riding style and terrain.

Step 2 - Selecting Negative Air Pressure

Negative air pressure affects the amount of force required to initiate suspension travel. Negative air pressure works in combination with ground bump inputs AGAINST the air pressure set in the positive air chamber.

- A negative air pressure setting that is higher than the positive air pressure setting results in a fork that is more sensitive to small bump inputs.
- A negative air pressure setting that is lower than the positive air setting results in a fork that is less sensitive to small bump inputs as well as rider induced fork movement known as "bob".

Setting Negative Air Pressure:

Remove the air cap on the air valve located at the bottom of the non-drive side fork leg. Start with the negative air pressure equal to the positive air pressure, then increase or decrease to match your riding style.

Negative air pressure should not exceed positive air pressure by more than 15 psi (1.0 Bar).

RIDER WEIGHT	⊕ AIR SETTINGS	⊖ AIR SETTINGS
‹ 140 lb. (‹ 63 kg):	**60 - 80** psi	**60 - 80** psi
140-160 lb. (63-72 kg):	**80 - 95** psi	**80 - 95** psi
160-180 lb. (72-81 kg):	**95 - 110** psi	**95 - 110** psi
180-200 lb. (81-90 kg):	**110 - 125** psi	**110 - 125** psi
›200 lb. (› 90 kg):	**125+** psi	**125+** psi

2. ADJUSTING REBOUND DAMPING

The red knob at the top of the drive side fork leg controls the rebound damping, the rate at which the fork returns after the fork has been compressed.

- Turn the knob clockwise for slower rebound (slower speeds, bigger hits).
- Turn the knob counter-clockwise for faster rebound (higher speeds, small bumps) and more traction.

3. ADJUSTING COMPRESSION DAMPING (BRAIN FADE)

The blue knob at the bottom of the drive side fork leg adjusts compression (Brain Fade).

It is recommended that a rider start with the Brain Fade in the middle of the adjustment range for their first ride. After the initial break-in (1-2 hrs) , the rider should then pay attention to how the suspension is working during normal and hard pedaling. If the suspension movement is excessive, then adjust the Brain Fade firmer until these rider inputs are controlled.

- Turn the knob clockwise for a firmer ride. Full clockwise is the maximum firm compression damping setting.
- Turn the knob counter-clockwise for a softer setting.

NOTE: For additional fork setup information, please visit **www.rockshox.com.** For Brain-specific information, visit **www.specialized.com.**

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